

Figure 1

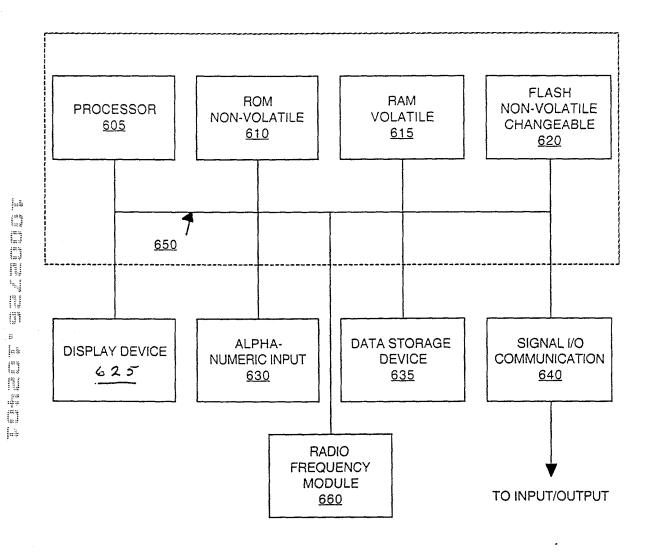


Figure 2

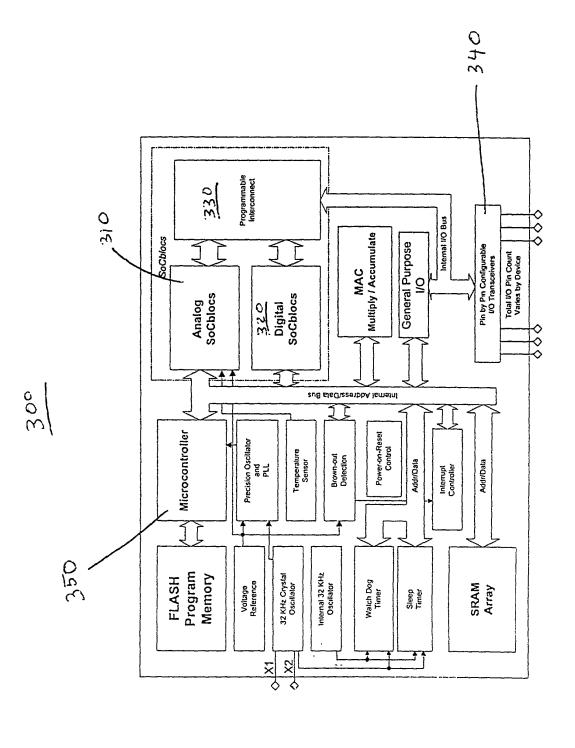
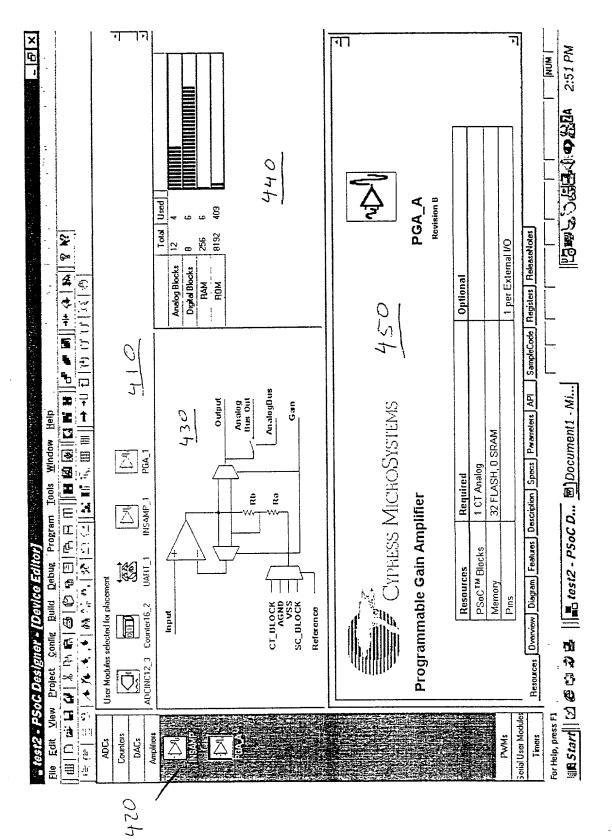
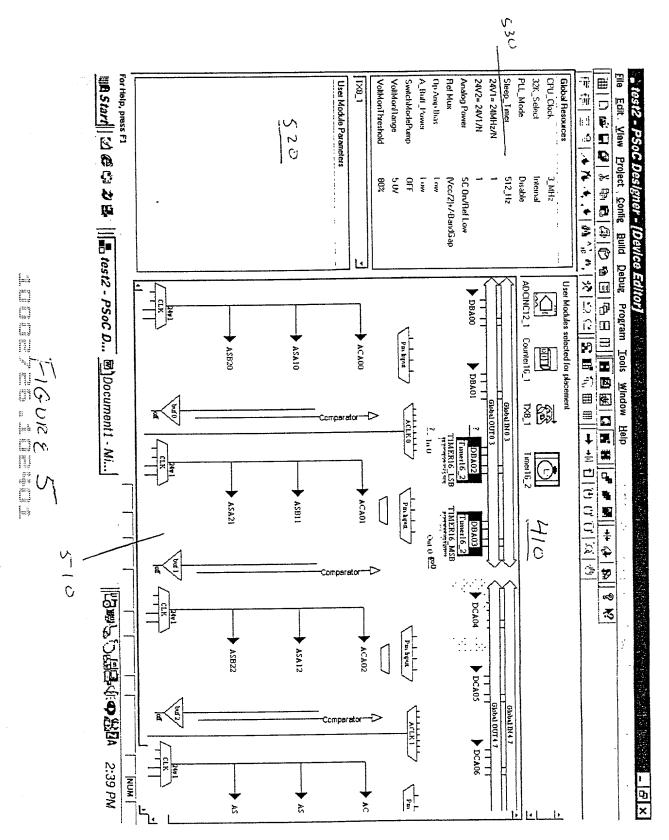


FIGURE 3

005



F16-UPE 4



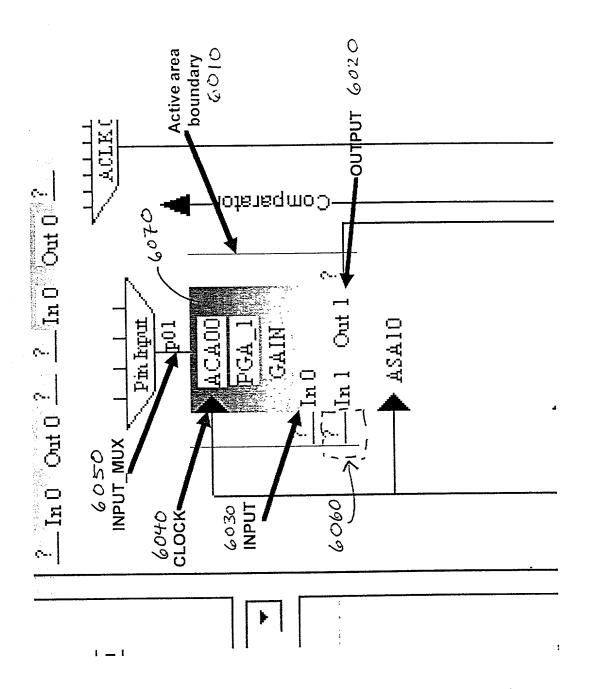


FIGURE 6

```
<BITFIELD NAME="CLOCK_PHASE" VALUE="PHASE_NORM"/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <BITFIELD NAME="COMP_OUT" VALUE="ENABLED"/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          <BITFIELD NAME="AZ_PIIASE" VALUE="AZ_PIII"/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     <BITFIELD_LIST> · <BITFIELD_LIST> · <BITFIELD_NAME="A_OUT" VALUE="DISABLED"/>
                                                                                                                                                                                                                                                                                             <BITFIELD NAME="CAP_SIZE" VALUE="16"/>
                                                                                                                                                                                                                                      -<BITFIELD NAME="OSZ" VALUE="OSZ_32"/>
                                                                                                                                                                                                                                                                                                                                                                                                 <BITFIELD NAME="CAP_SIZE" VALUE="0"/>
                                                                                                                                                                                                                                                                          <BITFIELD NAME="SIGN" VALUE="POS"/>
                                                          <!--Variable Resolution Incremental ADC-->
                                                                                                                                                                                                                                                                                                                                                                                                                                                                <REGISTER NAME="CR2">
                                                                                                                                                                                                                                                                                                                                                             <REGISTER NAME="CR1">
                                                                                                                                                                           7/2 —<REGISTER_LIST>
7/4 — <REGISTER NAME="CR0">
<!-- Project DB Ver 0.03 08/10/00-->
                                                                                                                                                                                                                                                                                                                                                                                                                          </BITFIELD_LIST>
                                                                                                                                                                                                                                                                                                                         </BITFIELD_LIST>
                                                                                                                                                                                                                                                                                                                                                                                  <BITFIELD_LIST>
                                                                                                                                                                                                                    716 — <BITFIELD_LIST>
                                                                                                                                                                                                                                                                                                                                                                                                                                              </REGISTER>
                                                                                                                                                                                                                                                                                                                                            </REGISTER>
                                      704 ~<USER_MODULE_LIST>
                      202-<PSOC_DEVICE_DB>
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007

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<BLOCK NAME="TMR" TYPE="DIGITAL" INTERRUPT_SOURCE="_TMR_INT" INTERRUPT_TYPE="JUMP">
                                                                           FIGURE 7B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <BITFIELD NAME="InterruptType" VALUE="TerminalCount"/>
                                                                                                                                                                                                                  <BITFIELD NAME="PWR_SELECT" VALUE="PWR_OFF"/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <BITFIELD NAME="CompareType" VALUE="LTorEQ"/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <BITFIELD NAME="DataSelect" VALUE="High"/>
                                                                                                                                                                                            <BITFIELD NAME="SBB" VALUĒ="DIŠABLE"/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <BITFIELD NAME="Function" VALUE="Timer"/>
<BITFIELD NAME="CAP_SIZE" VALUE="0"/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                              <BITFIELD NAME="End" VALUE="IsEnd"/>
                                                                                                                                                                                                                                                                                                                                                                                                                         <REGISTER NAME="DIG_BasicFunction">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     <REGISTER NAME="DIG_Input">
                                                          <REGISTER NAME="CR3">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                </BITFIELD_LIST>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               </BITFIELD_LIST>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          <BITFIELD_LIST>
                    </BITFIELD_LIST>
                                                                                                                                                                                                                                        </BITFIELD_LIST>
                                                                                                                                                                                                                                                                                                                                                                                                                                             <BITFIELD_LIST>
                                                                                                                                                                                                                                                                                  </REGISTER LIST>
                                                                                                                                                                                                                                                                                                                                                                                                        <REGISTER LIST>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   </REGISTER>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    </REGISTER>
                                       </REGISTER>
                                                                                                                                                                                                                                                              </REGISTER>
                                                                                                                                                                                                                                                                                                   750-<INPUT_LIST/>
                                                                                                                                                                                                                                                                                                                                            </BLOCK_LIST>
                                                                                                                                                                                                                                                                                                                          </BLOCK>
```

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<BLOCK NAME="CNT_MSB" TYPE="DIGITAL" INTERRUPT_SOURCE="_CNT_INT" INTERRUPT_TYPE="JUMP">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <INPUT SOURCE="AnalogOut" TYPE="RESERVED_RESOURCE" REGISTER_NAME="DIG_Input"</pre>
                     <BITFIELD_LIST>
<BITFIELD NAME="AUXOutputEnable" VALUE="DISABLE"/>
                                                                  <BITFIELD NAME="DigOutputEnable" VALUE="DISABLE"/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <BITFIELD NAME="CompareType" VALUE="LTorEQ"/>
                                                                                                                                                                                                                                                                                                                                                                                            <BITFIELD NAME="CompareType" VALUE="LTorEQ"/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <BITFIELD_LIST>
<BITFIELD_NAME="Function" VALUE="Counter"/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <BITFIELD NAME="End" VALUE="IsEnd"/>
                                                                                                                                                                                                                                                                     <BLOCK NAME="CNT_LSB" TYPE="DIGITAL">
                                                                                                                                                                                                                                                                                                                    <REGISTER NAME="DIG_BasicFunction">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <REGISTER NAME="DIG_BasicFunction">
<REGISTER NAME="DIG_Output">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     </BITFIELD_LIST>
                                                                                                                                                                                                                                                                                                                                                                                                                        </BITFIELD_LIST> </REGISTER>
                                                                                                </BITFIELD_LIST>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         </REGISTER_LIST>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          <REGISTER LIST>
                                                                                                                                                </REGISTER_LIST>
                                                                                                                                                                                                                                                                                                <REGISTER_LIST>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  </INPUT_LIST></BLOCK></br>
                                                                                                                        </REGISTER>
                                                                                                                                                                        <!NPUT_LIST/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               <INPUT_LIST>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BITFIELD="DataSelect"/>
                                                                                                                                                                                                                       </BLOCK_LIST>
                                                                                                                                                                                                                                               <BLOCK_LIST>
```

FIGURE 7

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<API_REGISTER_ALIAS NAME="AtoDcr0" SOURCE="ADC" REGISTER_NAME="CR1"/>
<API_REGISTER_ALIAS NAME="AtoDcr1" SOURCE="ADC" REGISTER_NAME="CR1"/>
<API_REGISTER_ALIAS NAME="AtoDcr2" SOURCE="ADC" REGISTER_NAME="CR2"/>
<API_REGISTER_ALIAS NAME="AtoDcr3" SOURCE="ADC" REGISTER_NAME="CR3"/>
<API_REGISTER_ALIAS NAME="CounterMSBFN" SOURCE="CNT_MSB" REGISTER_NAME="DIG_BasicFunction"/>
                                                                          <INPUT SOURCE="CNT_LSB" TYPE="BLOCK" REGISTER_NAME="DIG_Input" BITFIELD="DataSelect"/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <PARAMETER NAME="CTRCLKM" TYPE="CLOCK" SOURCE="CNT_MSB" REGISTER_NAME="DIG_Input"</p>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               <PARAMETER NAME="CTRCLKL" TYPE="CLOCK" SOURCE="CNT_LSB" REGISTER_NAME="DIG_Input"</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <PARAMETER NAME="ADCINPUT_SCB" TYPE="INPUT" SOURCE="ADC" REGISTER_NAME="CR1"</p>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <PARAMETER NAME="ADCINPUT_SCA" TYPE="INPUT" SOURCE="ADC" REGISTER_NAME="CRI"</p>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <PARAMETER NAME="TMRCLK" TYPE="CLOCK" SOURCE="TMR" REGISTER_NAME="DIG_Input"</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          <PARAMETER NAME="ClockPhase" TYPE="BLOCK" SOURCE="ADC" REGISTER_NAME="CR0"</p>
                                                                                                                                                                                                                                                                                       <RESOURCE NAME="AnalogOut" TYPE="ANALOG_COMPARATOR_OUTPUT">
                                                                                                                                                                                                                                                                                                                                                                             <INPUT SOURCE="ADC" TYPE="BLOCK" />
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BITFIELD="SCA_INPUT_MUX_A_C"/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    <API REGISTER ALIAS LIST>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BITFIELD="SCB_INPUT_MUX_A"/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BITFIELD="CLOCK_PHASE"/>
</REGISTER_LIST>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               </PARAMETER LIST>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              </RESOURCE_LIST>
                                                                                                                                                                                                                                                    725-<RESOURCE_LIST>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             740 — <PARAMETER LIST>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BITFIELD="ClockSelect"/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BITFIELD="ClockSelect"/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BITFIELD="ClockSelect"/>
                                                                                                                         </INPUT_LIST>
                                                                                                                                                                                                                                                                                                                                                                                                                          </INPUT LIST>
                                     <INPUT LIST>
                                                                                                                                                                                                                                                                                                                                      <INPUT_LIST>
                                                                                                                                                                                                                                                                                                                                                                                                                                                               </RESOURCE>
                                                                                                                                                                                                             </BLOCK LIST>
                                                                                                                                                                   </BLOCK>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        </RHAPE>
                                                                                                                                                                                                                                                                                                                                             730-
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<apr <tr><API REGISTER ALIAS NAME="CounterMSBSL" SOURCE="CNT MSB" REGISTER NAME="DIG Input"/> <API_REGISTER_ALIAS NAME="Comp_Ctrl" SOURCE="AnalogComp" TYPE="RESERVED_RESOURCE" <API_REGISTER_ALIAS NAME="TimerFN" SOURCE="TMR" REGISTER_NAME="DIG_BasicFunction"/> <api_REGISTER_ALIAS NAME="TimerCR0" SOURCE="TMR" REGISTER_NAME="CONTROL_0"/> <API_REGISTER_ALIAS NAME="TimerSL" SOURCE="TMR" REGISTER_NAME="DIG_Input"/>
<API_REGISTER_ALIAS NAME="TimerOS" SOURCE="TMR" REGISTER_NAME="DIG_Output"/> <API_REGISTER_ALIAS NAME="TimerDR1" SOURCE="TMR" REGISTER_NAME="DATA_1"/>
<API_REGISTER_ALIAS NAME="TimerDR2" SOURCE="TMR" REGISTER_NAME="DATA_2"/> <app. REGISTER_ALIAS NAME="TimerDR0" SOURCE="TMR" REGISTER_NAME="DATA_0"/> REGISTER NAME="AnalogComparatorControl"/> </API_REGISTER_ALIAS_LIST>

FIGURE 7E

</USE: MODULE LIST>